

0570  
01/03

O/PE #2

Serial Number: 10/013,056CRF Processing Date: 1/9/2002Edited by: AVerified by: A

(STIC stat

**ENTERED**

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEO ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEO ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

OIPE

## RAW SEQUENCE LISTING

DATE: 01/09/2002

PATENT APPLICATION: US/10/013,056

TIME: 08:24:10

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01092002\J013056.raw

5 <110> APPLICANT: Ligensa, Tanja  
 7 Schumacher, Ralf  
 9 Weidner, Michael  
 13 <120> TITLE OF INVENTION: IGF-1 Receptor Interacting Proteins  
 17 <130> FILE REFERENCE: 09/453,195  
 C--> 21 <140> CURRENT APPLICATION NUMBER: US/10/013,056  
 C--> 23 <141> CURRENT FILING DATE: 2001-10-30  
 27 <150> PRIOR APPLICATION NUMBER: EPO 98122992.5  
 29 <151> PRIOR FILING DATE: 1998-12-03  
 33 <160> NUMBER OF SEQ ID NOS: 10  
 37 <170> SOFTWARE: PatentIn Ver. 2.1  
 41 <210> SEQ ID NO: 1  
 43 <211> LENGTH: 1707  
 45 <212> TYPE: DNA  
 47 <213> ORGANISM: Homo sapiens  
 51 <220> FEATURE:  
 53 <223> OTHER INFORMATION: n at position 186, 187, 203, and 205 is a, t, g, or c.  
 57 <400> SEQUENCE: 1  
 59 gaaacccaca ggaggcaacc aactagttt agatcttctg gtgacccac ttctcgctgc 60  
 61 tcatgccgct gggactgggg cggcggaaaa aggcgcccc tctagtggaa aatgaggagg 120  
 63 ctgagccagg ccgtggaggg ctgggcgtgg gggagccagg gcctctgggc ggaggtgggt 180  
 65 **cgggggnccc ccaaatgggc ttncncccc cccccccagc cctgcggccc cgctcgtgt 240**  
 67 tccacacca gctggcccat ggcagtccca ctggccgcat cgagggttc accaacgtca 300  
 69 aggagctgta tggcaagatc gccgaggcct tccgctgcc aactgccgag gtgatgttct 360  
 71 gcaccctgaa caccacaaa gtggacatgg acaagctcct ggggggccag atcgggctgg 420  
 73 aggacttcat cttcgccac gtgaaggggc agcgcaagga ggtggagggt ttcaagtcgg 480  
 75 aggatgcact cgggctcacc atcacggaca acggggctgg ctacgccttc atcaagcgca 540  
 77 tcaaggaggg cagcgtgatc gaccacatcc acctcatcag cgtgggcgac atgatcgagg 600  
 79 ccattaacgg gcagagcctg ctgggctgcc ggcactacga ggtggcccgg ctgctcaagg 660  
 81 agctgccccg aggcgtacc ttacgctga agctcacgga gcctcgcaag gccttcgaca 720  
 83 tgatcagcca gcgttcagcg ggtggccgcc ctggctctgg ccacaaactg ggcaactggc 780  
 85 gagggaccct gcggctccga tcccggggcc ccgccacggt ggaggatctg ccctctgcct 840  
 87 ttgaagagaa ggccattgag aaggtggatg acctgctgga gagttacatg ggtatcaggg 900  
 89 acacggagct ggcagccacc atggtggagc tgggaaagga caaaaggaac ccgatgagc 960  
 91 tggccgaggg cctggacgaa cggctgggtg actttgcctt ccctgacgag ttcgtctttg 1020  
 93 acgtctgggg cgccattggg gacgccaagg tcggccgcta ctaggactgc ccccggaacc 1080  
 95 tgcgatgatg acccgggcgc aacctggtgg gggccccag cagggacact gacgtcagga 1140  
 97 cccgagcctc cagcctgagc ctagctcagc agcccaagga cgatggtgag gggagggtgg 1200  
 99 gccaggcccc ctgccccgct ccaactcggt ccatccccct cctggttccc agtctggccg 1260  
 101 ggggtccccg cccccctgtg ccctgttccc cacctacctc agctgggtca ggcacaggga 1320  
 103 ggggagggat cagccaaatt gggcgccac ccccgctcc accactttcc accatcagct 1380  
 105 gccaaactgg tccctctgtc tccctggggc cttgggttct gtttgggggt catgaccttc 1440  
 107 ctagtttcct gacgcaggga atacagggga gagggttgtc cttcccccca gcaaatgcaa 1500  
 109 taatgccctc acccctcctg agaggagccc cctccctgtg gagcctgtta cctccgcatt 1560  
 111 tgacacgagt ctgctgtgaa ccccgcaacc tctccccac ctcccatctc tcttccagg 1620  
 113 cccatccctg gccagagca ggaggagggg agggacgatg gcggtgggtt tttgtatctg 1680  
 115 aatttgctgt cttgaacata aagaatc 1707



## RAW SEQUENCE LISTING

DATE: 01/09/2002

PATENT APPLICATION: US/10/013,056

TIME: 08:24:10

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01092002\J013056.raw

261 Val Trp Gly Ala Ile Gly Asp Ala Lys Val Gly Arg Tyr  
 263 325 330  
 269 <210> SEQ ID NO: 3  
 271 <211> LENGTH: 380  
 273 <212> TYPE: DNA  
 275 <213> ORGANISM: Homo sapiens  
 279 <220> FEATURE:  
 281 <223> OTHER INFORMATION: n at position 369 is a, t, g, or c.  
 285 <400> SEQUENCE: 3  
 287 gccgaggaag gagaaggggc taaaccttgg agagtggatg gctcaaagga ttctcagatc 60  
 289 acacctcggg aggatcatgg gcaggagagc ctgttggcag ggctccacgg aacgcatcca 120  
 291 ccaaagacaa ggcagaaagt cactgcccac gccggaggcc ccggggatcc catgcttttt 180  
 293 tcaagcccag agacagatga gaagcttttt atatgtgcgc agtgtggcaa aaccttcaac 240  
 295 aataacctcca acctgagaac gcaccagcgg atccacactg gcgagaagcc ctacatgtgt 300  
 297 tccgagtgtg gcaagagttt ctcccggagc tccaaccgca tccggcacga gcgcatccac 360  
 299 **ctggaagana agcactctga** 380  
 305 <210> SEQ ID NO: 4  
 307 <211> LENGTH: 126  
 309 <212> TYPE: PRT  
 311 <213> ORGANISM: Homo sapiens  
 315 <220> FEATURE:  
 317 <223> OTHER INFORMATION: Xaa at position 123 is any one of the twenty naturally occurring amino acids.  
 322 <400> SEQUENCE: 4  
 324 Ala Glu Glu Gly Glu Gly Ala Lys Pro Trp Arg Val Asp Gly Ser Lys  
 326 1 5 10 15  
 330 Asp Ser Gln Ile Thr Pro Arg Glu Asp His Gly Gln Glu Ser Leu Leu  
 332 20 25 30  
 336 Ala Gly Leu His Gly Thr His Pro Pro Lys Thr Arg Gln Lys Val Thr  
 338 35 40 45  
 342 Ala Gln Ala Gly Gly Pro Gly Asp Pro Met Leu Phe Ser Ser Pro Glu  
 344 50 55 60  
 348 Thr Asp Glu Lys Leu Phe Ile Cys Ala Gln Cys Gly Lys Thr Phe Asn  
 350 65 70 75 80  
 354 Asn Thr Ser Asn Leu Arg Thr His Gln Arg Ile His Thr Gly Glu Lys  
 356 85 90 95  
 360 Pro Tyr Met Cys Ser Glu Cys Gly Lys Ser Phe Ser Arg Ser Ser Asn  
 362 100 105 110  
 366 **Arg Ile Arg His Glu Arg Ile His Leu Glu Xaa Lys His Ser**  
 368 115 120 125  
 374 <210> SEQ ID NO: 5  
 376 <211> LENGTH: 678  
 378 <212> TYPE: DNA  
 380 <213> ORGANISM: Homo sapiens  
 384 <400> SEQUENCE: 5  
 386 atgtcgagac cccggaagag gctggctggg acttctggtt cagacaaggg actatcagga 60  
 388 aaacgcacca aaactgagaa cttaggtgag gcattagcta aagtggagga ctccaaccct 120  
 390 cagaagactt cagccactaa aaactgtttg aagaatctaa gcagccactg gctgatgaag 180  
 392 tcagagccag agagccgcct agagaaaggt gtagatgtga agttcagcat tgaggatctc 240

## RAW SEQUENCE LISTING

DATE: 01/09/2002

PATENT APPLICATION: US/10/013,056

TIME: 08:24:10

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01092002\J013056.raw

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394 aaagcacagc ccaaacagac aacatgctgg gatggtgttc gtaactacca ggctcggaac 300
396 ttccttagag ccatgaagct gggagaagaa gccttcttct accatagcaa ctgcaaagag 360
398 ccaggcatcg caggactcat gaagatcgtg aaagaggctt acccagacca cacacagttt 420
400 gagaaaaaca atccccatta tgacccatct agcaaagagg acaaccctaa gtggtccatg 480
402 gtggatgtac agtttggttc gatgatgaaa cgtttcattc ccctggctga gctcaaatcc 540
404 tatcatcaag ctacacaaagc tactggtggc cccttaaaaa atatggttct cttcactcgc 600
406 cagagattat caatccagcc cctgaccagc gaagagtttg attttgtttt gagcctggag 660
408 gaaaaggaac caagttaa                                     678

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414 &lt;210&gt; SEQ ID NO: 6

416 &lt;211&gt; LENGTH: 225

418 &lt;212&gt; TYPE: PRT

420 &lt;213&gt; ORGANISM: Homo sapiens

424 &lt;400&gt; SEQUENCE: 6

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426 Met Ser Arg Pro Arg Lys Arg Leu Ala Gly Thr Ser Gly Ser Asp Lys
428   1           5           10           15
432 Gly Leu Ser Gly Lys Arg Thr Lys Thr Glu Asn Ser Gly Glu Ala Leu
434           20           25           30
438 Ala Lys Val Glu Asp Ser Asn Pro Gln Lys Thr Ser Ala Thr Lys Asn
440           35           40           45
444 Cys Leu Lys Asn Leu Ser Ser His Trp Leu Met Lys Ser Glu Pro Glu
446           50           55           60
450 Ser Arg Leu Glu Lys Gly Val Asp Val Lys Phe Ser Ile Glu Asp Leu
452   65           70           75           80
456 Lys Ala Gln Pro Lys Gln Thr Thr Cys Trp Asp Gly Val Arg Asn Tyr
458           85           90           95
462 Gln Ala Arg Asn Phe Leu Arg Ala Met Lys Leu Gly Glu Glu Ala Phe
464           100          105          110
468 Phe Tyr His Ser Asn Cys Lys Glu Pro Gly Ile Ala Gly Leu Met Lys
470           115          120          125
474 Ile Val Lys Glu Ala Tyr Pro Asp His Thr Gln Phe Glu Lys Asn Asn
476           130          135          140
480 Pro His Tyr Asp Pro Ser Ser Lys Glu Asp Asn Pro Lys Trp Ser Met
482   145          150          155          160
486 Val Asp Val Gln Phe Val Arg Met Met Lys Arg Phe Ile Pro Leu Ala
488           165          170          175
492 Glu Leu Lys Ser Tyr His Gln Ala His Lys Ala Thr Gly Gly Pro Leu
494           180          185          190
498 Lys Asn Met Val Leu Phe Thr Arg Gln Arg Leu Ser Ile Gln Pro Leu
500           195          200          205
504 Thr Gln Glu Glu Phe Asp Phe Val Leu Ser Leu Glu Glu Lys Glu Pro
506           210          215          220

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510 Ser

512 225

518 &lt;210&gt; SEQ ID NO: 7

520 &lt;211&gt; LENGTH: 18

522 &lt;212&gt; TYPE: DNA

524 &lt;213&gt; ORGANISM: Artificial Sequence

528 &lt;220&gt; FEATURE:

530 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence:primer TIP2c-s

## RAW SEQUENCE LISTING

DATE: 01/09/2002

PATENT APPLICATION: US/10/013,056

TIME: 08:24:10

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01092002\J013056.raw

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534 <400> SEQUENCE: 7
536 gaaacccaca ggaggcaa 18
542 <210> SEQ ID NO: 8
544 <211> LENGTH: 18
546 <212> TYPE: DNA
548 <213> ORGANISM: Artificial Sequence
552 <220> FEATURE:
554 <223> OTHER INFORMATION: Description of Artificial Sequence:primer TIP2b-r
558 <400> SEQUENCE: 8
560 ggtcatcatc gcagggtc 18
566 <210> SEQ ID NO: 9
568 <211> LENGTH: 33
570 <212> TYPE: DNA
572 <213> ORGANISM: Artificial Sequence
576 <220> FEATURE:
578 <223> OTHER INFORMATION: Description of Artificial Sequence:primer Hcthy-s
582 <400> SEQUENCE: 9
584 agcttgcggc cgcagatgtc gagaccccg aag 33
590 <210> SEQ ID NO: 10
592 <211> LENGTH: 40
594 <212> TYPE: DNA
596 <213> ORGANISM: Artificial Sequence
600 <220> FEATURE:
602 <223> OTHER INFORMATION: Description of Artificial Sequence:primer Hcthy-r
606 <400> SEQUENCE: 10
608 agcttgcggc cgcgaattct taacttggtt ccttttcctc 40

```

## VERIFICATION SUMMARY

DATE: 01/09/2002

PATENT APPLICATION: US/10/013,056

TIME: 08:24:11

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01092002\J013056.raw

L:21 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:23 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:65 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1  
L:65 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1  
L:65 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:153 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2  
L:153 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2  
L:153 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:299 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3  
L:299 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3  
L:299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:366 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4  
L:366 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4  
L:366 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4

OIKE

## RAW SEQUENCE LISTING

DATE: 01/02/2002

PATENT APPLICATION: US/10/013,056

TIME: 14:27:57

Input Set : A:\ES.txt

Output Set: N:\CRF3\01022002\J013056.raw

5 <110> APPLICANT: Ligensa, Tanja  
 7 Schumacher, Ralf  
 9 Weidner, Michael  
 13 <120> TITLE OF INVENTION: IGF-1 Receptor Interacting Proteins  
 17 <130> FILE REFERENCE: 09/453,195  
 C--> 21 <140> CURRENT APPLICATION NUMBER: US/10/013,056  
 C--> 23 <141> CURRENT FILING DATE: 2001-10-30  
 27 <150> PRIOR APPLICATION NUMBER: EPO 98122992.5  
 29 <151> PRIOR FILING DATE: 1998-12-03  
 33 <160> NUMBER OF SEQ ID NOS: 10  
 37 <170> SOFTWARE: PatentIn Ver. 2.1

Does Not Comply  
 Corrected Diskette Needed

## ERRORED SEQUENCES

588 <210> SEQ ID NO: 10  
 590 <211> LENGTH: 40  
 592 <212> TYPE: DNA  
 594 <213> ORGANISM: Artificial Sequence  
 598 <220> FEATURE:  
 600 <223> OTHER INFORMATION: Description of Artificial Sequence: primer Hcthy-r  
 604 <400> SEQUENCE: 10  
 606 agcttgccgc cgcgaattct taacttggtt ccttttcctc 40  
 E--> 612 -6-



## VERIFICATION SUMMARY

DATE: 01/02/2002

PATENT APPLICATION: US/10/013,056

TIME: 14:27:58

Input Set : A:\ES.txt

Output Set: N:\CRF3\01022002\J013056.raw

L:21 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:23 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:65 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1  
L:65 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:1  
L:65 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:152 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2  
L:152 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2  
L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:298 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3  
L:298 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3  
L:298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:364 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4  
L:364 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4  
L:364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:612 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:40 SEQ:10